

Title (en)
HEATING, VENTILATION, AND AIR-CONDITIONING SYSTEM AND METHOD OF CONTROLLING A HEATING, VENTILATION, AND AIR-CONDITIONING SYSTEM

Title (de)
HEIZUNGS-, LÜFTUNGS- UND KLIMAAANLAGE UND VERFAHREN ZUR STEUERUNG EINER HEIZUNGS-, LÜFTUNGS- UND KLIMAAANLAGE

Title (fr)
SYSTÈME DE CHAUFFAGE, DE VENTILATION ET DE CLIMATISATION ET PROCÉDÉ DE COMMANDE D'UN SYSTÈME DE CHAUFFAGE, DE VENTILATION ET DE CLIMATISATION

Publication
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Application
EP 21184944 A 20210712

Priority
EP 21184944 A 20210712

Abstract (en)
Various aspects relate to a method of controlling a heating, ventilation, and air-conditioning, HVAC, system, the method including: controlling indoor environmental conditions using the HVAC system, detecting a load of the HVAC system, inputting detected indoor environmental conditions and detected outdoor environmental conditions into a load prediction model to generate a predicted load, and training the load prediction model to reduce a difference between the predicted load and the detected load of the HVAC system; determining requested indoor environmental conditions associated with a future time period; determining predicted outdoor environmental conditions within the future time period using a weather forecast; inputting the requested indoor environmental conditions and the predicted outdoor environmental conditions into the trained load prediction model to determine a predicted load for the future time period; controlling the HVAC system to reduce a load of the HVAC system within the future time period using the determined predicted load.

IPC 8 full level
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CPC (source: EP US)
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Citation (search report)
• [X] CN 109740787 A 20190510 - 4PARADIGM BEIJING TECH CO LTD
• [A] CN 111735177 A 20201002 - XIAN MOONEW ENERGY TECH SERVICE CO LTD
• [A] CN 110736244 B 20201020

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